ADAM-4502

Ethernet-enabled Communication Controller with 2-ch AI/O and 4-ch DI/O

NEW



Features

- 10/100Base-T(X) Ethernet interface
- Email alarm function
- Built-in web server
- Built-in FTP server and client
- Supports functionally versatile I/O modules
- Full functions of standard TCP and UDP sockets
- Supports Modbus/RTU and Modbus/TCP function libraries
- 1.5 MB Flash ROM/640 KB SRAM
- 4 serial ports
- Integrated all operations in Windows utility

Introduction

With its modular design, ADAM-4502 has all the same functionality as ADAM-4501, but provides different I/O options. The ADAM-4502 provides one Ethernet interface and 4 serial ports module, but also features 1 analog input, 1 analog output, 2 digital inputs and 2 digital outputs. This versatility allows users to implement rich interfaces for different applications.

Specifications

General

- **Connectors** 1 x RJ45 (Ethernet)
  1 x RJ48 (COM1)
  2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Indicators** LEDs for Power, run, communication and battery
- **Power Input** Unregulated 10 ~ 30 V_{DC} w/power reversal protection

System

- **CPU** 40 MHz, 16-bit
- **CPU Power Consumption** 4 W @ 24 V_{DC}
- **Memory** 1.5 MB flash memory:
  - 256 KB system flash disk (Drive C: Read Only)
  - 256 KB flash memory (accessed by function LIB)
  - 1024 KB file system, 960 KB for user applications (Drive D: Read/Write)

  640 KB SRAM, up to 384 KB with battery backup (accessed by function LIB)
- **Real-time Clock (RTC)** Yes
- **Watchdog Timer** Yes

Input/Output

- **Analog Input**
  - Channels: 1
  - Input Type: mV, V, mA
  - Input Range: ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, 4 ~ 20 mA
  - Resolution: 16-bit
  - Sampling rate: 100 Sample/second
  - Isolation Voltage: 1000 V_{DC}
- **Analog Output**
  - Channels: 1
  - Output Type: V, mA
  - Output Range: 0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA
  - Slew Rate: 1 V/μs
  - Isolation Voltage: 1,000 V_{DC}
- **Digital Input**
  - Channels: 2
  - Dry Contact: Logic level 0 : Close to GND
    Logic level 1 : Open
  - Wet Contact: Logic level 0 : +2 V max.
    Logic level 1 : 4 V ~ 30 V
- **Digital Output**
  - Channels: 2
  - Open Collector to +40 V, 1 A max. load
  - Power Dissipation: 1 W load maximum

Communication

- **LAN** 1 x 10/100Base-T
- **RS-485 Speed** 1.2 to 115.2 kbps
- **Serial Ports** COM1: RS-232 (Full Modem Signals)
  COM2, COM3: RS-485
  COM4: RS-232 (Programming Port)/RS-485 (Selected by Jumper)

Software

- **C Library** Borland C++ 3.0 for DOS
- **Operating System** ROM-DOS

Environment

- **Humidity** 5 ~ 95% RH
- **Operating Temperature** - 10 ~ 70° C (14 ~ 158° F)
- **Storage Temperature** - 25 ~ 85° C (-13 ~ 185° F)

Ordering Information

- **ADAM-4502** Ethernet Comm Controller w/2-ch AI/O, 4-ch DI/O